

ISOST MULTI-GEM 18

CHARACTERISTICS

- Multi Green Energy Meter (Multi-GEM) is able to measure and monitor multi electric power loads.
- Max. 18 Channels 1P2W or Max. 8 channels 3P3W feeders(needs an auxiliary transformer for providing 230V supply) or Max. 6 channels for 3P4W power monitoring.
- Measurement : Phase voltage, Line voltage & current, Frequency, Power Factor, Unbalance.
- Active/Reactive/Apparent Power, Active/Reactive/Apparent Energy.
- 0.5/1.0 Class accuracy for power measurement conformed by IEC62053-22/IEC62053-21.
- Flexible application for the single phase 2wires / 3phase 4wires / 3phase 3wires power line.
- Cost saving by power consumption monitoring.
- Sag/Swell detection.
- Total Harmonics Distortion(THD)
- 1 Analog input terminal for temperature measurement(NTC)
- Support RS485 Serial(Modbus RTU) and Ethernet(Modbus TCP) Comm.

SPECIFICATIONS

Model	ISOST MULTI-GEM 18	
Power system	1P2W, 3P3W(2CT), 3P4W	
Inputs Rating	Measurement	50-690 V~ 3~ L-L, Max. 6000 A, 3~, CAT III 600V AC
	Frequency	50 /60 Hz
	CT port	Instantaneous current, 100mA or 333mV (depends on ref.)
	Control power	AC100-240V~, 50/60Hz, 0.12~0.07A
	Power Consumption	5W max
	Digital Input	1point, AC 220V external input power
	NTC	25°C, 10kΩ($\beta(25/85)=3970^{\circ}\text{k}$)
Output Contact	1-SPST, AC 250V 5A, DC 30V 5A	
Communication	Modbus RS485 Modbus TCP	
Usage	Indoor use	
altitude up to	2,000 m	
Operating Temperature	- 10°C to 55°C	
Storage Temperature	-25°C to 70°C	
Humidity	Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40 °C	
Over voltage category	II for AC Mains CAT III 600V AC for Measurement Terminals	
Pollution degree	2	
Short-term temporary	overvoltage: 1440V for AC Mains/1s	
Long-term temporary	overvoltage: 490V for AC mains/5s	
Standards	IEC 62053-21/22	